

CLAIMS

5 1. A resin composition for storing liquid foods, in which a kneaded compound that includes a hydrophilic reducing organic compound and a hydrophilic and water insoluble thermoplastic resin is dispersed in a hydrophobic thermoplastic resin.

10 2. The resin composition for storing liquid foods of Claim 1, in which the hydrophilic reducing organic compound is present in the range of 0.05 ~ 10% by weight, the hydrophilic and water insoluble thermoplastic resin is present in the range of 3 ~ 40% by weight, and the hydrophobic thermoplastic resin is present in the range of 50 ~ 96% by weight.

15 3. A resin composition for storing liquid foods, in which a kneaded compound which includes a hydrophilic reducing organic compound, a porous inorganic compound, and a hydrophilic and water insoluble thermoplastic resin is dispersed in a hydrophobic thermoplastic resin.

20 4. The resin composition for storing liquid foods of Claim 3, in which the hydrophilic reducing organic compound is present in the range of 0.05 ~ 10% by weight, the porous inorganic compound is present in the range of 0.05 ~ 10% by weight, the hydrophilic and water insoluble thermoplastic resin is present in the range of 3 ~ 40% by weight, and the hydrophobic thermoplastic resin is present in the range of 40 ~ 96% by weight.

25 5. The resin composition for storing liquid foods of Claims 3 or 4, in which the porous inorganic compound comprises synthetic zeolite.

30 6. The resin composition for storing liquid foods of any one of Claims 1-5, in which the hydrophilic reducing organic compound is a compound selected

from the group consisting of ascorbic acids, polyphenols and catechins.

7. The resin composition for storing liquid foods of any one of Claims 1-6, in which the hydrophilic and water insoluble thermoplastic resin is ethylene-vinyl alcohol copolymer, polyvinyl alcohol having a saponification degree of 95% or higher, or polyamide resin.

8. The resin composition for storing liquid foods of any one of Claims 1-7, in which the hydrophobic thermoplastic resin comprises polyolefin resin.

9. A laminate for packaging liquid foods comprising an innermost layer made of the resin composition claimed in any one of Claims 1-8.

10. A laminate for packaging liquid foods comprising an innermost layer made of a hydrophilic and water insoluble thermoplastic resin and a layer adjacent to the innermost layer made of the resin composition claimed in any one of Claims 1-8.

11. The laminate for packaging liquid foods of Claim 10, in which the hydrophilic and water insoluble thermoplastic resin comprises ethylene-vinyl alcohol copolymer or polyvinyl alcohol having a saponification degree of 95% or higher.

12. A laminate for packaging liquid foods comprised of an innermost layer made of resin having a water vapor transmission rate of not less than 5g/m² · 24 hours at 40°C and 90% RH and a layer adjacent to the innermost layer made of the resin composition claimed in any one of Claims 1-8.

13. The laminate for packaging liquid foods of Claim 12, in which the resin layer having the water vapor transmission rate is comprised of polyethylene

Chand based resin or polypropylene based resin having a thickness of $30 \mu\text{m}$ or less.

*Sud
B1*

14. A laminate for packaging liquid foods, comprising an innermost layer made of a resin that is prepared by dispersing a porous inorganic compound supporting an ascorbic acids into hydrophobic thermoplastic resin.

15. A laminate for packaging liquid foods comprised of an innermost layer made of a resin having a water vapor transmission rate of not less than $5\text{g/m}^2 \cdot 24\text{ hours at }40^\circ\text{C}$ and 90% RH and a layer adjacent to the innermost layer manufactured by dispersing a porous inorganic compound supporting an ascorbic acids into hydrophobic thermoplastic resin.

16. The laminate for packaging liquid foods of Claim 15, in which the resin layer having the water vapor transmission rate is comprised of polyethylene based resin or polypropylene based resin having a thickness of $30 \mu\text{m}$ or less.

17. The laminate for packaging liquid foods of any one of Claims 14-16, in which the porous inorganic compound comprises synthetic zeolite.

20 18. The laminate for packaging liquid foods of any of Claims 14-17, in which the hydrophobic thermoplastic resin comprises polyolefin resin.

25 19. The laminate for packaging liquid foods of Claim 18, in which the polyolefin resin comprises polyethylene based resin or polypropylene based resin.